



## Hurricane Irma/Hurricane Maria 2017 9/27/2017 – 1030 EDT Update

### EXECUTIVE SUMMARY

- CEPD – Region continues to reach out and contact CEPD personnel post storm. In Puerto Rico, communications are very difficult and a majority of employees have not yet been accounted for. At this writing the Director and Deputy Director have been able to account for 51 of 56 employees based in PR. In the USVI both employees are safe and in contact with EPA responders. CID has made contact with only one of their two agents in PR. CID/NCERT agents arrived in PR on 9/24 and are assisting CEPD locate EPA employees.
- The CEPD Guaynabo office building is running on generator power. Data and voice services and cell phone service is operating.
- The CEPD office in St. Thomas, USVI has been assessed and in the same condition post Hurricane Irma. EPA will follow up with GSA on the cleaning and air monitoring from the damage done by Irma.

The CEPD office in Vieques, PR has not been assessed post Hurricane Maria.

- The personnel information from the EPA re-deployment plan was provided to FEMA so flights and lodging needs can be coordinated for the first wave of EPA responders. Flights for EPA personnel continued to be postponed, as the priority is still the life-saving and life sustaining mission. We will keep pursuing FEMA flights, however we are also coordinating with the U.S. Coast Guard for possible flight space as they move people and equipment into the U.S. Caribbean. Suitable lodging on PR remains a challenge. We continue to pursue berthing space on the various FEMA supported vessels arriving in PR.
  - Puerto Rico: **120 people** (50 people on 9/30 + 50 people on 10/1 + 20 people on 10/7).
  - St Croix: **88 people** (20 people on 9/27 + 34 people on 9/30 + 34 people on 10/2)
  - St Thomas: **68 people** (34 people on 9/28 + 34 people on 10/2)
- Other Significant Concurrent Events.
  - We continue to monitor the northern track of Hurricane Maria for potential

impacts to the East Coast. We have developed a mobilization and resource plan should any impacts require a response in NY/NJ.

- **Hurricane Irma Recovery Update.**

- **NDRF and FEMA Recovery Support Function(s):**

- NDRF activation: The NDRF has not yet been activated in either PR or the VI. There is an expectation that it will be activated asap and therefore all partners are being engaged for awareness, planning and visibility. EPA has already provided data as part of the advanced evaluation and will continue to do so.
    - FEMA reported that the SS Wright currently in St Thomas delivered several recovery personnel including the Federal Disaster Recovery Officer (FDRO) and we expect the Federal Disaster Recovery Coordinator (FDRC) to be deployed in the next 10 days.
    - Recovery Support Functions (RSFs): R2 CASD is working on a staffing plan for all 6 Recovery Support

- RSFs include Community Planning & Capacity Building, Economic, Housing, Health & Human Services, Infrastructure, and Natural & Cultural Resources. All 6 are expected to be stood up for both PR and the VI. To date:

- The Health and Human Services Recovery Support Functions (RSF) Coordinator will be in the VI on Saturday.
    - FEMA reported that the SS Wright is expected to arrive on Saturday in St Thomas with several recovery personnel including the Federal Disaster Recovery Officer (FDRO)
    - The Community Planning and Capacity Building (CPCB) RSF coordinator is expected to be deployed within in the next 10 days.
    - Economic Development Administration (EDA) already has 1 liaison in PR.

- We are working with each of the RSF Coordinators with data and planning support which we will coordinate with our response team as appropriate. HHS has asked us for support in conducting EJ analysis and information on potential health issues related to water and wastewater systems in PR.

- **National Coordination:**

- Unified Federal Review: FEMA has named Michael Audin with whom we worked closely on Sandy Recovery, as FEMA's lead for Environmental and Historic Preservation for PR and the VI. No Request for an EPA contact yet.
    - Sustainability Advisor: No Request yet

- **Emerging Recovery Issues:** Housing, power distribution, workforce development, drinking and waste water, long term disaster debris management.
- **Topics of Interest from FEMA Daily Reports:** Nothing to report.
- **Other:** No other issues at this time.

## **PUERTO RICO / U.S. VIRGIN ISLANDS CONDITIONS**

### **General:**

- On 9/26/17 FEMA Administrator Brock Long met with FEMA personnel and the governors of the USVI and Puerto Rico to get an update on the current situation and each governor's priorities and assess the progress of response and recovery efforts underway.
- The Department of Health and Human Services (HHS) **has** more than 300 staff on the ground, including a National Disaster Medical System Disaster Medical Assistance Teams (DMAT), with more on the way. HHS is working with staff from the U.S. Army Corps of Engineers (USACE) to re-open hospitals around Puerto Rico and the U.S. Virgin Islands.
- HHS and DoD are conducting medical evacuations; so far they've evacuated more than 150 patients from the U.S. Virgin Islands and Puerto Rico to locations in the continental United States. In the U.S. Virgin Islands, FEMA and the American Red Cross are providing hotel lodging and support for the remaining patients until additional movement can be coordinated. More than half of the dialysis centers in the U.S. Virgin Islands and Puerto Rico are now operational.
- Nine FEMA Urban Search and Rescue (US&R) teams working in coordination with the U.S. Coast Guard, U.S. Customs and Border Protection, and others continue to conduct search and rescue operations in Puerto Rico and the U.S. Virgin Islands. Together, these teams have saved or assisted 530 individuals so far.

### **US Virgin Islands (USVI):**

- State of Emergency declared; National Guard activated.
- St. Thomas and St. John: curfew is 6pm -9am. St. Croix remains at 24 hours except for 12pm-4pm
- Power Outages:
  - St. Thomas: 19,574 (99%)
  - St. John: 2,893 (100%)

- St. Croix: 25,274 (90%)
- Public schools remain closed
- The Governor Juan F. Luis Hospital in St. Croix and the Schneider Regional Medical Center Emergency Room in St. Thomas were re-energized and re-established as mobile hospitals over the weekend by HHS and Department of Defense (DoD).
- St. Thomas 47.3% cell sites out of service. St. John 66.7% and St. Croix 76.2% or less of cell sites out of service.
- Airports: St. Thomas and St. Croix: Open for response and recovery operations only. A contingency ramp has been established at Cyril E. King Airport to support disaster response and recovery thru 9/30.
- Ports:
  - St. Thomas Open with restrictions: East Gregerie Channel, West Gregerie Channel, Crown Bay, Redhook
  - St. John Open with restrictions: Cruz Bay
  - St. Croix Open with restrictions: Krause Lagoon; Limetree Bay; Frederiksted
  - All other ports closed

#### **Puerto Rico (PR):**

- State of Emergency remains in effect; National Guard activated.
- Curfew in effect 7pm to 5am; health care workers, emergency officials, police, journalists and citizens who are dealing with an emergency situation are exempt
- 92.5% (-3.1) of cell sites are out of service. 2,470 of 2,671 cell sites are out of service. 389 on backup power
- Airports: San Juan: 10 arriving commercial flights inbound. Additional status updates include: 7 open; 2 military air and hurricane relief; 1 closed. **Luis Munoz Marin Airport (San Juan)** – Will increase commercial flights to 12 domestic flights per day. International flights will begin in the weekend
- Ports. Open: Guayanilla, Salinas, Tallaboa Open with restrictions: San Juan, Fajardo, Vieques, and Culebra, Guayama All other ports closed
- **Public Transportation** – Public Transportation in the Metropolitan Area is not operational. Urban train stations are closed and public buses are not in service. Government is considering establishing contracts for private transportation services
- **Toa Vaca and Guayabal Dams.** No changes to report.

- **Guajataca Dam.** No changes to report..
- **PREPA** – PREPA achieved 4% electricity to clients in San Juan, but it was lost due to the fragile condition of the system. A number of hospitals in the metropolitan area were affected by the outage. PREPA has also focused on energizing the Aguirre Power Plant to provide energy to southern PR. PREPA was able to energize parts of Mayaguez by using a diesel turbine power plant. Governor indicated that one of the priorities is for FEMA to bring 300 brigades to repair PREPA’s system. PREPA bondholders offered a \$1 billion loan to help reestablish the electrical system in PR. It is special type of loan given to financially stressed entities known as DIP.
- **PRASA** – According to PRASA, 45% of clients have access to drinking water.
- **Shelters** – Approximately 11,500 residents staying in government shelters
- **Access to Fuel** - There is citizen desperation and frustration due to limitations to access to gasoline and diesel / lines in gas stations are extensive (3 to 12 hour wait)

## **PUBLIC AFFAIRS**

The PIO is Elias Rodriguez, who can be reached at 212-637-3664. The Assistant PIOs are Tayler Covington, who can be reached at 212-637-3662 and Pat Seppi, who can be reached at 646-369-0068. All press inquiries are being managed through the Office of Public Affairs.

OPA issued a Maria update news release on September 26, 2017: “[EPA Hurricane Maria Update for Tuesday, September 26](#)”.” OPA issued a news release on September 26 announcing EPA Administrator Scott Pruitt’s approval of a request from Puerto Rico Governor Ricardo Rosselló for an emergency fuel waiver: “[EPA Approves Emergency Fuel Waiver for Puerto Rico](#)”. We continue to provide all Region 2 staff with relevant Maria news clips and EPA news releases.

The response web site [www.epa.gov/hurricane-maria](http://www.epa.gov/hurricane-maria) is being updated daily by the HQ EOC and Region 2 PIO.

Community Involvement: The PIO and PAD management have identified PIOs, bi-lingual Community Involvement Coordinators and community relations support for the USVI and Puerto Rico assessment and cleanup teams. A PIO and a CIC are planning to deploy to Puerto Rico on Monday, October 2. We are continuing to identify personnel and options for deployment of additional CICs and PIOs through October to support ground and REOC operations.

## **Region 2 – Hurricane Irma Management Objectives**

- Protect the health and safety of EPA employees.
- Implement a re-position plan to address communications schedules, employee location information, rallying points, and a cellular and satellite communication plan.

- Coordinate with FEMA on the re-position and remobilization of EPA responders.
- Implement a re-mobilization plan.
- Minimize social, political, and economic adverse impacts.
- Maintain communication and briefing schedule with R2 senior executives and EPA Headquarters. Support a consistent communications approach agency-wide, enabling EPA to act and speak in unison during these incidents.
- Provide situation reports and other information on schedule provided by RIC.
- Provide guidance for length of work day and deployments as it pertains to this specific event.
- Coordinate logistics with deployed personnel to provide transportation options, lodging, security, ground transportation on site.
- Identify clearly defined roles for both Regions and Headquarters.
- Identify long-term recovery objectives the Agency may be requested to support, and determine resources needed to support/sustain those requests to accomplish the objectives.
- Secure NPL and removal sites. Regulated facilities and Superfund and oil sites will be surveyed post storm fall
- Identify vulnerabilities at regulated facilities
- Address any immediate hazardous substance releases or oil spills resulting from the storm's impact
- Assist state and local agencies in ensuring safety of drinking water systems.
- Monitor air quality when/if necessary in response to conditions on the ground.
- Provide guidance for length of work day and deployments as it pertains to this specific event
- Coordinate logistics with deployed personnel to provide transportation options, lodging, security, ground transportation on site;
- Coordinate national resources to assist the Region;
- Identify clearly defined roles for both Regions and Headquarters;
- The response will use the Region's incident specific Data Management Plan (DMP);
- In collecting, sharing, and analyzing environmental data, EPA will give primacy to data with potential human health consequences;
- EPA will work to ensure that its decision-makers have access to the data and expertise they need to make decisions based on sound science.

## **DEBRIS RECOVERY**

### **USVI Debris Mission.**

- FEMA EOC in STX has requested that EPA take part in daily Debris Management meetings. EPA will advise on air monitoring and/or sampling protocols associated with the burning of debris. However, no decision has been made on whether there will be burn operations. FEMA STX has also indicated that EPA may be requested to assist with medical waste issues resulting from the re-establishment of medical facilities on STX and STT.

## **AIR MONITORING**

**Puerto Rico.** EPA made contact on 9/25 with EQB's air quality program. EQB is planning to conduct an assessment on the conditions of the ambient air monitoring network. The network was taken offline prior to Hurricane Maria landfall. There is no update or information on the status or damages. They will staff an assessment team once their employees are able to return to the office, which may occur as early as 9/26.

## EMERGENCY RESPONSE

Daily/Cumulative Summary of Hazard Evaluations/Recovery				
Status	Opened		Closed	
	9/26/2017	Cumulative	9/26/2017	Cumulative
Puerto Rico	0	0	0	0
U.S. Virgin Islands	0	2	0	2
Note: Open means that the target is yet to be recovered. Closed means the target was recovered, left in place, or access was denied to collect the item. The facilities on the USVI are associated with the request for mold assessment of the STT airport tower and the current oil spill at Total.				

Daily/Cumulative Summary of Spills/Discharges				
Status	Opened		Closed	
	9/26/2017	Cumulative	9/26/2017	Cumulative
Puerto Rico	0	3	0	3
U.S. Virgin Islands	0	1	0	1

## SUPERFUND NPL, SUPERFUND REMOVAL, AND OIL REMOVAL SITES

Preparations are underway to re-assess Superfund and oil sites in PR and the USVI as part of the Region's re-deployment plan. Re-assessment planning/implementation is on-going.

SUPERFUND SITES (NPL, Removal and Oil)						
PUERTO RICO						
Site	Type	Phase 1	Phase 2		Phase 3	All Phases Completed
		Post-Storm Assessment	Site Inspection Needed	Inspected	Additional Response Action	
Atlantic Fleet Weapons	NPL					
Juncos Landfill	NPL					
Upjohn Facility	NPL					
Arecibo Battery Recycling Corp.	Removal & NPL*	9/21	No	Yes	No	9/21
Corozal Battery	Removal & NPL*					
Cabo Rojo Groundwater	NPL					
Cidra Groundwater	NPL					

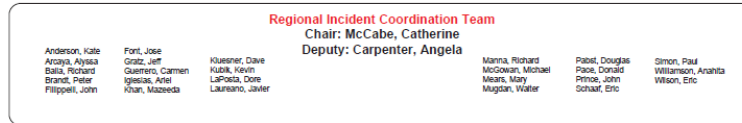
Dorado Groundwater	NPL					
Fibers Public Supply Wells	NPL					
Hormigas Groundwater	NPL					
Maunabo Urbano Public Wells	NPL					
Papelera Puertoriquena, Inc.	NPL					
Pesticide Warehouse 1	NPL					
Pesticide Warehouse III	NPL					
San German Groundwater	NPL					
Scorpio Recycling	NPL					
Vega Alta Public Supply Wells	NPL					
Vega Baja Solid Waste Disposal	NPL					
Guayanilla Bay Oil Spill	Oil Response					
Puma Caribe (CAPECO)	Oil Response					
<b>U.S. VIRGIN ISLANDS</b>						
TUTU Well Field	NPL					
Krum Bay Oil Spill at WAPA Facility	Oil Response					
Cruz Bay Oil Tank	Oil Response					

\* These are Sites that have both, a Removal and Remedial program action. Only one assessment will be conducted per Site.

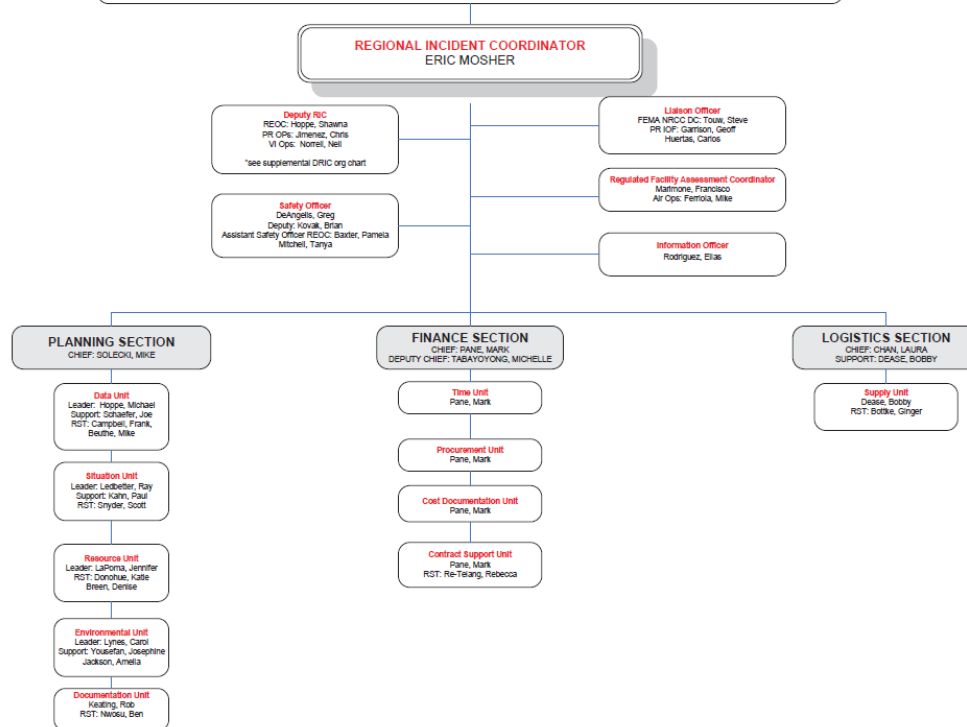
## REGION 2 RESPONSE ORGANIZATION (ICS 207)



ICS 207  
Hurricane Irma/Maria  
Region 2 - Edison,  
Wednesday, September 27, 2017



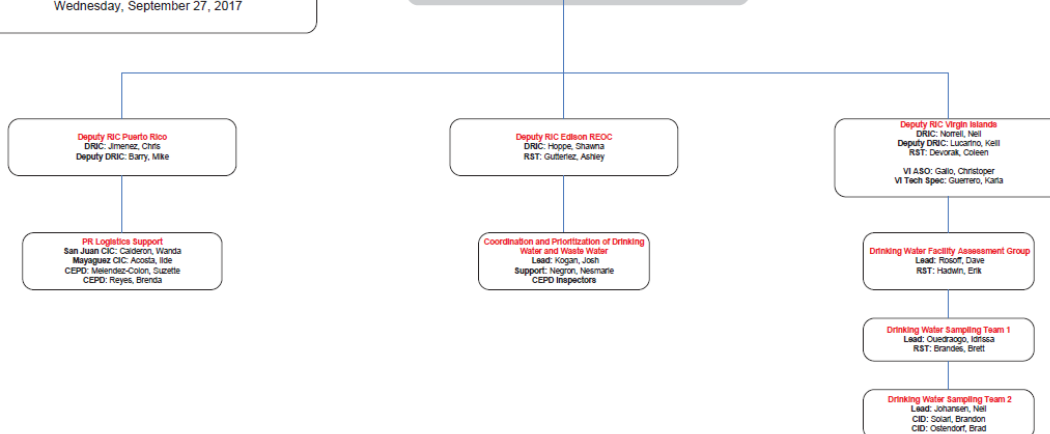
P520



ICS 207  
Hurricane Irma/Maria  
Region 2  
DRIC Organizational Chart  
Wednesday, September 27, 2017



P520



## FIELD RESPONSE ACTIVITIES

## PUERTO RICO

- Assessment teams comprised of OSCs, technical assistance contractors, and public affairs personnel are preparing to re-deploy to Puerto Rico in accordance with our EPA Region 2 Mobilization and Resource Plan as soon as transportation and lodging issues are resolved.
- EPA CEPD has resumed limited operations and is scheduling drinking water/wastewater facility assessments. Two assessment teams went out 9/26 and visited:
  - PRASA – Carolina WWTP
  - PRASA – Puerto Nuevo WWTP
  - PRASA – Bayamon WWTP

Assessment teams will go out 9/27 to visit:

- PRASA – Dorado WWTP
  - PRASA – Vega Baja WWTP
  - PRASA – Sergio Cuevas WTP
  - PRASA – La Plata WTP
  - PRASA – Guaynabo WTP
- Available CEPD Staff are coordinating with the response command structure to provide support in other assessments, such as chemical and oil facilities, NPL, and removal sites
- Local municipalities have not reported any issues with the landfills in PR. EPA assessments teams will be aware of the potential issue as they conduct their other assessment work within the impacted communities.
- Assessment teams made up of OSCs, RPMs, technical assistance contractors and public affairs officers waiting to deploy to PR.
- FEMA has moved its base of operations from IOF in Caguas to the 3rd floor of the Sheraton Convention Center in San Juan, near the Coast Guard base. The IOF and all other FEMA and PREMA ops will be located there as part of a joint operations center. EPA is staffing the ESF #10 desk daily.

## **U.S. VIRGIN ISLANDS**

- Additional assessment teams are preparing to re-deploy to the USVI in accordance with our EPA Region 2 Mobilization and Resource Plan.
- EPA water assessment and sampling team made up of 3 OSCs and 3 water sampling personnel arrived in STX, VI on 9/24. Sampling activities commenced on 9/25.
- The air bridge and flight rotator to STT is reopening today.

- Ocean Systems water testing: A generator will be shipped from PR to resolve power issues at the St. Croix lab. The St. Thomas lab received its generator and is operational. Weston, EPA and Ocean Systems laboratory personnel met to discuss the contracting of Ocean Systems for sampling and lab analysis on St. Croix, St. Thomas, and St. John.
- On 9/26, Two assessment and sampling teams were active today. 17 Samples were taken today from the two teams combined at the following public water systems.
  - Rainmaker Plaza Extra East
  - Plaza Extra East Ice Plant
  - Plaza Extra East Kitchen
  - Herbert Grigg Home IC
  - Herbert Grigg Home LTC
  - Herbert Grigg Home Kitchen
  - Limetree Bay Terminals
  - Lorraine Village
  - St. Croix Educational Complex
  - WAPA 123 Strawberry
  - Lutheran Social Services Flamboyant E
  - Lutheran Social Services Flamboyant F
  - Lutheran Social Services Flamboyant I
  - Lutheran Social Services Flamboyant G
  - Lutheran Social Services Flamboyant J
  - Peppertree Terrace
  - Juan Luis Hospital
- Processed (colilert) and recorded the results of the 9 samples collected on 9/25/2017. Results show positives for Ecoli for 3 of the systems: St. Croix Mutual Homes (2) and Lewis E. Brown Apartments. Disinfection of these cistern based community systems is required.
- For 9/27, EPA will be working at the DPNR Office in Frederickstead tomorrow to develop drinking water facility target lists for St. Croix as well as St. Thomas, and St. John. In addition to developing the target lists EPA and DPNR will perform some sampling and assessments at the following facilities:
  - St. Croix Mutual Homes #14/15
  - St. Croix Mutual Homes #22/23
  - Cane Brake
  - Estate Carlton
  - Armory
- EPA will lead another team to continue sampling efforts and assessments with these target Facilities:

- Aqua Mist
- Blue Mountain
- Mario's Virgin Krystal
- Purified Water
- Rainmaker (Cost-U-Less)
- Rainmaker (Seaside)
- Association of St. C
- Fort Louise Augusta
- Granada Del Mar
- Harborview
- Long Reef
- Mill Harbour
- Peter's Farm Condominium
- Questa Verde (bldg. D)
- Questa Verde (bldg. F)
- Questa Verde (bldg. M/N)
- Questa Verde (bldg. K/L)
- The Reef Condominiums

## **REGION 2 REGIONAL EMERGENCY OPERATIONS CENTER (REOC)**

- Re-deployment/mobilization plan is being implemented for EPA response personnel and resources.

The table below displays the teams that have been deployed based on the assessment results in Puerto Rico or the USVI.

<b>Quantity and Types of Teams Deployed 9/26/2017</b>		
<b>Team Type</b>	<b>Puerto Rico</b>	<b>U.S. Virgin Islands</b>
Assessment Team – All Missions	0	0
Water Assessment	0	2
Hazard Evaluation	0	0
Oil Discharge Assessment	0	0
Container Recovery	0	0
Oil Recovery	0	0
ER/Recovery	0	0
Air Operations	0	0
Contaminated Debris	0	0
Operation Centers (REOC), PREOC, VITEMA, PR IOF, VI IOF	1 (PR IOF)	1 (STX VITEMA/FEMA Bunker)

## **• PUERTO RICO**

	CONTAINERS			TOTAL
	Drums (55 Gals)	Large Containers (<55 gals)	Large Containers (>55 gals)	
9/26/2017	0	0	0	0
Total to Date	0	0	0	0

## U.S. VIRGIN ISLANDS

	CONTAINERS			TOTAL
	Drums (55 Gals)	Large Containers (<55 gals)	Large Containers (>55 gals)	
9/26/2017	0	0	0	0
Total to Date	0	0	0	0

## AGENCY COORDINATION

Region 2 has one rep to staff the ESF-10 desk in the FEMA NRCC in Washington D.C. EPA has an OSC in the VITEMA/FEMA EOC bunker in St. Croix.

Environmental Response Management Application (ERMA). NOAA supports a ERMA viewer for both EPA Region 2 and the U.S Coast Guard. Aerial photos are available through the following link.

<https://erma.noaa.gov/caribbean/erma.html#/layers=3+36619+36620+36611+36618&x=-65.62791&y=18.14726&z=9&panel=layer>

**U. S. Coast Guard Air/Flight Support.** EPA Air/Flight Support will coordinate through USCG Seventh District Miami office resources unit for both Clearwater and Miami USCG air stations. Currently there is one flight/day to SJU from Miami. EPA is seeking an opportunity to move water and hazmat/oil teams into the U.S. Caribbean. EPA will submit requests for transportation as part of the ongoing queue.

## SPILL/RELEASE RESPONSE

Hotline Calls as of September 26, 2017	
Number of Maria Related Calls Received During Reporting Period 1300-0100	1

<b>Total Number of Maria Related Calls to Date</b>	6
<b>* EPA is assessing each call through the NRC to determine appropriate response and forwarding reports to field personnel to conduct further assessments and response as</b>	

## DRINKING WATER / WASTEWATER

CEPD is waiting to hear back from PRASA on drinking water facilities' statuses, and plans to begin field inspections on 9/26 of plants near the San Juan Airport. CEPD also will begin attempting contact with non-PRASA facilities on 9/26. PR also currently has an island-wide boil water order. Of PRASA's total 52 total plants, 9 are operational, 19 are non-operational, and 24 have an unknown operational status. CEPD will begin field inspections on 9/26 of plants near the San Juan.

FAA intends to drill a water well at an FAA facility near the San Juan Airport to supply water to their HVAC systems and also for the staff of 40 to 60 people. EPA is waiting for more information from the FAA.

### PRASA Waste Water Treatment Plants:

Out of PRASA's total of 52 facilities, 9 are operational, 19 are non-operational, and 24 have an unknown operational status. CEPD will begin field inspections of plants near the San Juan Airport on 9/26. The status of the PRASA facilities as of 9/24 is below.

...

Region	Area	Plant Name	Generator		Plant in Operation
			EGU	AEE	
ESTE	CAGUAS	PA AGUAS BUENAS			X
ESTE	CAGUAS	PA CAGUAS	X		
ESTE	CAGUAS	PA PARCELAS BORINQUEN			X
ESTE	CAYEY	PA AIBONITO	X		
ESTE	CAYEY	PA BARRANQUITAS			X
ESTE	CAYEY	PA CAYEY	X		
ESTE	CAYEY	PA COMERIO	X		
ESTE	FAJARDO	PA CULEBRA			X
ESTE	FAJARDO	PA FAJARDO NUEVA			X
ESTE	FAJARDO	PA RIO GRANDE STATES			X
ESTE	FAJARDO	PA VIEQUES			X
ESTE	HUMACAO	PA HUMACAO	X		
ESTE	HUMACAO	PA YABUCOA	X		
METRO	BAYAMON	PA BAYAMON			X
METRO	CAROLINA	PA CAROLINA			X
METRO	SAN JUAN	PA PUERTO NUEVO			X

NORTE	ARECIBO	PA ARECIBO	X		
NORTE	ARECIBO	PA CAMUY HATILLO	X		
NORTE	ARECIBO	PA JAYUYA NUEVA			X
NORTE	ARECIBO	PA LARES	X		
NORTE	ARECIBO	PA UTUADO NUEVA			X
NORTE	MANATI	PA BARCELONETA			X
NORTE	MANATI	PA CIALES			X
NORTE	MANATI	PA MOROVIS	X		
NORTE	MANATI	PA UNIBON	X		
NORTE	MANATI	PA VEGA BAJA			X
NORTE	TOA ALTA	PA COROZAL	X		
NORTE	TOA ALTA	PA DORADO			X
NORTE	TOA ALTA	PA NARANJITO			X
NORTE	TOA ALTA	PA TOA ALTA			X
NORTE	TOA ALTA	PA VEGA ALTA	X		
OESTE	AGUADILLA	PA AGUADA - AGUADILLA		X	In operation
OESTE	AGUADILLA	PA ISABELA	X		In operation
OESTE	AGUADILLA	PA SAN SEBASTIAN NEW		X	In operation
OESTE	AGUADILLA	PA SAN SEBASTIAN OLD		X	In operation
OESTE	MAYAGUEZ	PA LAS MARIAS		X	In operation
OESTE	MAYAGUEZ	PA MARICAO		X	In operation
OESTE	MAYAGUEZ	PA MAYAGUEZ		X	In operation
OESTE	SAN GERMAN	PA LAJAS		X	In operation
OESTE	SAN GERMAN	PA SAN GERMAN		X	In operation
SUR	COAMO	PA OROCOVIS			
SUR	COAMO	PA SANTA ISABEL			
SUR	GUAYAMA	PA GUAYAMA			
SUR	GUAYAMA	PA MAUNABO			
SUR	GUAYAMA	PA PATILLAS			
SUR	PONCE	PA ADJUNTAS			
SUR	PONCE	PA PONCE			
SUR	YAUCO	PA GUANICA			
SUR	YAUCO	PA GUAYANILLA			
SUR	YAUCO	PA PEÑUELAS			
SUR	YAUCO	PA YAUCO			
ESTE	CAGUAS	PA FAJARDO			X

**PREPA:** The Director of PREPA indicated that the power system is non-functioning. It

suffered severe and catastrophic structural damage in the distribution lines and it will take many months for repairs and reconstruction.

**USVI Drinking Water Status: VIWAPA:** <http://www.viwapa.vi>

On 9/23/17, EPA Region 2 issued an order pursuant to the SDWA that authorized FEMA/DOD to pump drinking water to the USVI. FEMA/DOD are working to deploy 4 reverse osmosis units in St Croix to deliver drinking water to the following impacted areas:

Stoney Ground  
Cane Bay  
Altima  
Cramer Park

DPNR requested EPA to conduct sampling, especially bacteria, and analysis. They also would like any ice being brought to the USVI analyzed for bacteria, at a minimum. An EPA water sampling team arrived on St. Croix on 9/24 and will assist DPNR in this regard.

The REOC was able to have generators shipped on to the USVI on 9/23/17. They will be used to help power the DPNR and WAPA labs.

## **REGULATED FACILITIES**

In addition to a post-storm assessment email on 9/21/17, the Regulated Facility Team (RFT) re-sent post-storm assessment email questionnaire on 9/26/17 to approximately 205 RMP, FRP, and SPCC facility representatives for facilities located in PR and the VI. The RFT continues to tabulate the responses, and pass-on field assessment candidates to Operations as appropriate. The RFT expects a better response rate to the post-storm assessment once telecommunications on PR and the USVI improves.

The RFT is continuing efforts to directly contact significant RMP, FRP, and SPCC companies that have not yet responded to the post-storm assessment via email or by phone. Several significant RMP, FRP, and SPCC companies in PR and the USVI, such as Puma, PRASA, Total, and WAPA have preliminarily reported no damage to oil, chemical, or flammable operations.

The RFT, in coordination with the Regional Emergency Operations Center (REOC), continues to provide effective compliance assistance to facilities that experienced spills/releases, potential spills/releases, and lost containers. In addition to the Buckeye, Yabucoa, PR facility that experienced an approximate 50-gallon spill into secondary containment, the RFT is investigating a what was reported in a local news article to be a minor ammonia release at the Cervcerea de Puerto Rico facility located in Mayaguez, PR. The RFT has provided ammonia refrigeration technical assistance to Operations that will assist in the evaluation of this facility by the field assessment team. Limetree Bay Holdings, located in St. Croix, USVI, is currently addressing minor spills on-site. The RFT will remain in contact with Limetree Bay Holdings until the spills are resolved.

The RFT is assisting Operations and the Data Team by providing updated RMP, FRP, and



SPCC targeting information for upcoming field assessments. Additionally the RFT is using various EPA databases to provide regulatory history and other facility-specific information when requested.

The Regulated Facility Assessment Coordinator (RFAC) continues to coordinate damage assessment and field assessment referral information with other R2 inspection programs working in UST, Federal Facilities, RCRA, CAA, and NPDES. The UST program remains in-touch with the DPNR UST Program Manager, and continues to provide information on USTs and gas stations through frequent attempts to contact USVI and PR local authorities and regulated facility personnel. The Federal Facilities Coordinator has been following up with federal facilities in PR and the USVI, and is periodically updating the RFAC as appropriate.

## PUERTO RICO

Facility Type	Sites Identified	Pre-Storm Remote Assessment	Post Storm Remote Assessment	Post Storm Field Assessment	Follow-up Action Required
RMP	56	56*	0	0	0
FRP	22	22*	0	0	0
SPCC (non-FRP) <sup>u</sup>	232 <sup>#</sup>	232 <sup>#*</sup>	0	0	0
<b>Total</b>	310 <sup>#</sup>	310 <sup>#</sup>	0	0	0

## U.S. VIRGIN ISLANDS

Facility Type	Sites Identified	Pre-Storm Assessment	Post Storm Assessment	Post Storm Field Assessment	Follow-up Action Required
RMP	1	1*	0	0	0
FRP	6	6*	1	0	1
SPCC (non-FRP) <sup>u</sup>	57 <sup>#</sup>	57 <sup>#*</sup>	0	0	3
<b>Total</b>	64 <sup>#</sup>	64 <sup>#</sup>	1	0	4

## EPA RESOURCES AS OF 9/26/2017

Personnel	EPA Edison, NJ NYC San Juan, PR <sup>^</sup>	FEMA NRCC, DC	Puerto Rico Deployments*	USVI Deployments*	Totals
EPA	65	1	14	17	97

<b>START/ RST</b>	15	0	0	6	21
<b>ERRS</b>	6	0	0	2	8
<b>Other Contractors</b>	0	0	0	0	0
<b>Totals</b>	86	1	14	25	126

^Number includes personnel in the REOC, RICT, and CEPD personnel that are working the response.

\*Number includes personnel working at coordination centers and EPA Regional offices.

## **DECLARATIONS FOR HURRICANE IRMA**

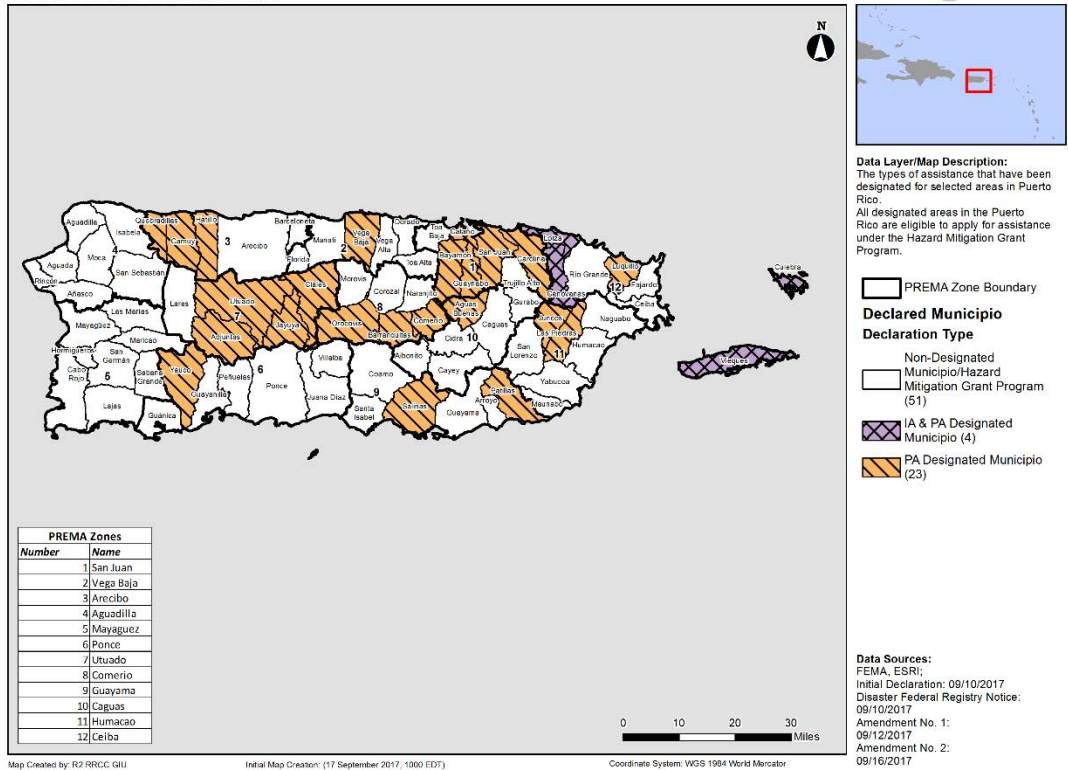
### **Puerto Rico.**

Emergency Declaration FEMA-3384-EM effective September 5. Assistance is for all 78 municipalities in the Commonwealth of PR. The Governor of Puerto Rico requested a disaster declaration 9/8.

Disaster Declaration FEMA-4336-DR effective September 9. Declared areas only include Culebra and Vieques. On 9/13 ten additional municipalities in Puerto Rico were added to the major declaration, and are now eligible for work under any DFA MA's that we receive. The municipalities are: Adjuntas, Canovanas, Carolina, Guaynabo, Juncos, Loiza, Luquillo, Orocovis, Patillas, and Utuado.

On 9/15, fifteen additional municipalities were added to the major declaration and are now eligible for Public Assistance. The municipalities are: Aguas Buenas, Barranquitas, Bayamón, Camuy, Cataño, Ciales, Comerío, Hatillo, Jayuya, Las Piedras, Quebradillas, Salinas, San Juan, Vega Baja, and Yauco.

# **Puerto Rico Declaration Map, Amendment 2** FEMA-4336-DR-PR: Hurricane Irma

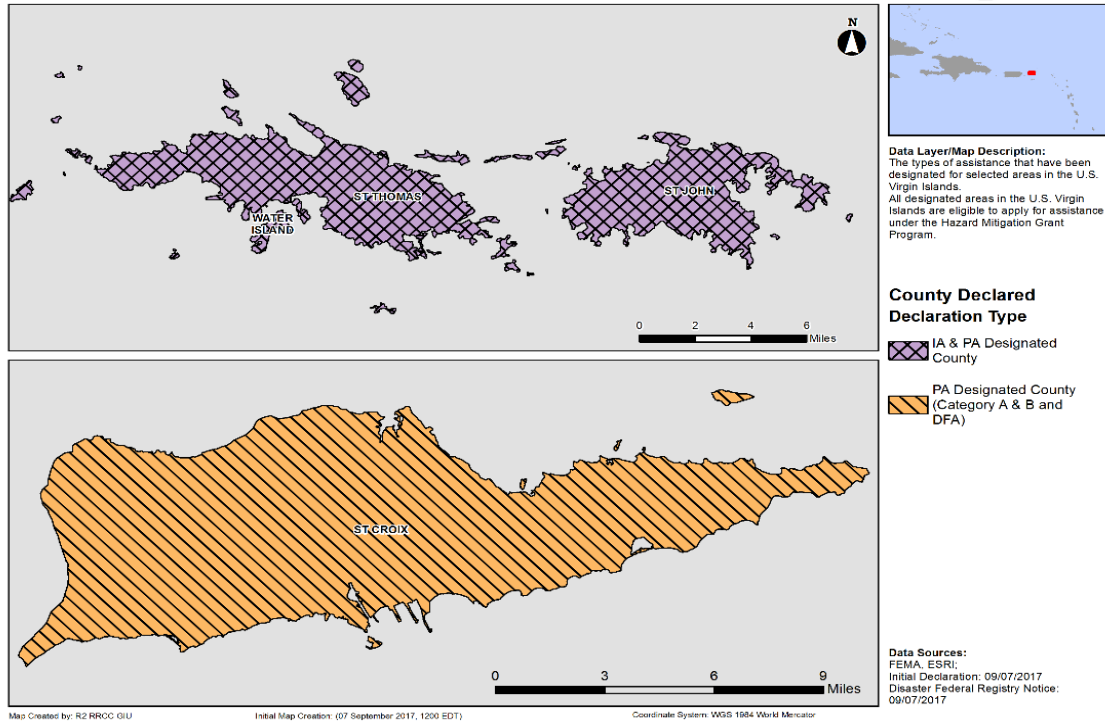


## **U.S. Virgin Islands.**

Disaster Declaration FEMA-4335-DR effective September 7, 2017. St. Thomas and St. John approved for Individual Assistance, all islands eligible for Public Assistance and the Hazard Mitigation Grant Program.

Emergency Declaration FEMA-3383-EM effective September 5. Assistance is for all islands in the Territory of the USVI.

**U.S. Virgin Islands Declaration Map (07 September 2017, 1200 EST)**  
 DR-4335-USVI: Hurricane Irma



## DECLARATIONS FOR HURRICANE MARIA

### Puerto Rico.

Emergency Declaration. The President has signed Emergency Declaration FEMA-3391-EM for Puerto Rico.

On 9/20, The President has signed a Disaster Declaration FEMA-4339-DR for Puerto Rico.

The White House initial statement covers 54 municipalities. The municipalities included in the disaster declaration are: Aguas Buenas, Aibonito, Arecibo, Arroyo, Barceloneta, Barranquitas, Bayamón, Caguas, Canóvanas, Carolina, Cataño, Cayey, Ceiba, Ciales, Cidra, Coamo, Comerio, Corozal, Culebra, Dorado, Fajardo, Florida, Guayama, Guaynabo, Gurabo, Humacao, Jayuya, Juana Díaz, Juncos, Las Piedras, Loíza, Luquillo, Manati, Maunabo, Morovis, Naguabo, Naranjito, Orocovis, Patillas, Ponce, Rio Grande, Salinas, San Juan, San Lorenzo, Santa Isabel, Toa Baja, Toa Alta, Trujillo Alto, Utuado, Vega Alta, Vega Baja, Vieques, Villalba, Yabucoa.



## U.S. Virgin Islands.

Emergency Declaration. The President has signed Emergency Declaration FEMA-3390-EM for the Territory of the U.S. Virgin Islands for Hurricane Maria.

On 9/20, The President has signed a Disaster Declaration FEMA-4340-DR for the Territory of the U.S. Virgin Islands for Hurricane Maria.

## FUNDING FOR IRMA AND MARIA

Mission Assignment Number	Purpose	Start Date	End Date	Total Amount	Indirect Costs	Amt. Available	Daily Burn Rate	Used	Balance
4335DR-VI-EPA-01 (X06)	EPA to FEMA R2 RRCC (Colts Neck, NJ) and FEMA NRCC (Washington, DC)	09/07/17	10/07/17	\$100,000	\$10,466	\$89,534	\$1,500	\$39,260	\$50,274
4335DR-VI-EPA-06 (X12)	EPA to FEMA RRCC, JFO, EPA REOC, State EOC, PDA & NRA Teams & other coord venues	09/02/17	10/13/17	\$2,000,000	\$209,329	\$1,790,671	\$30,000	\$662,743	\$1,127,928
4335DR-VI-EPA-02 (X07)	Assess oil & hazmat releases, contaminated debris & other environmental events in VI	09/07/17	09/30/17	\$508,000	\$53,170	\$454,830	\$35,000	\$667,736	(\$212,906)

3384EM-PR-EPA-03 (X09)	Assess oil & hazmat releases, contaminated debris & other environmental events in PR	09/09/17	09/30/17	\$508,000	\$53,170	\$454,830	\$12,000	\$209,218	\$245,612
4335DR-VI-EPA-04 (X11)	Removal, cleanup and disposal of oil & hazmat; collect and dispose of HHW; monitor immediate threats to public H&S and the environment in the VI	09/13/17	10/13/17	\$10,000,000	\$1,046,646	\$8,953,354	\$0	\$0	\$8,953,354
VI-17090102-EPA-01 (X03)	EPA to FEMA R2 RRCC (Colts Neck, NJ)	09/02/17	09/11/17	\$10,000	\$1,046	\$8,954	\$0	\$8,954	\$0
PR-17090102-EPA-01 (X05)	EPA to FEMA R2 RRC and other coordination venues as necessary	09/01/17	09/11/17	\$20,000	\$2,093	\$17,907	-	\$17,907	\$0
3383EM-VI-EPA-01 (X08)	EPA to FEMA RRCC, JFO, EPA REOC, State EOC, PDA & NRA Teams and other coordination venues	09/07/17	09/16/17	\$75,000	\$7,850	\$67,150	\$0	\$68,400	\$0
3384EM-PR-EPA-01 (X04)	EPA to FEMA RRCC, JFO, EPA REOC, State EOC, PDA and NRA Teams and other coordination venues	09/06/17	09/16/17	\$75,000	\$7,850	\$67,150	\$12,000	\$64,800	\$2,350
4336DR-PR-EPA-01 (X10)	EPA to FEMA RRCC. Funding for EPA command centers is authorized.	09/10/17	10/10/17	\$100,000	\$10,466	\$89,534	\$12,000	\$85,200	\$4,334
<b>Grand Total</b>						<b>\$11,993,914</b>	<b>N/A</b>	<b>\$1,824,218</b>	<b>\$10,170,946</b>

## FUEL WAIVERS, ORDERS, AND NO ACTION ASSURANCE

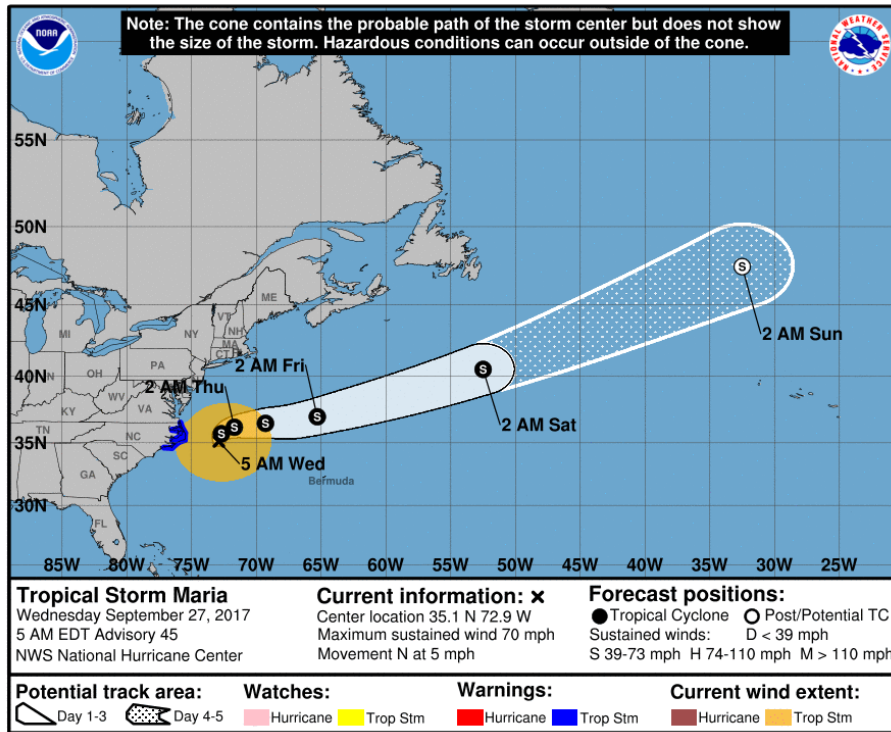
- EPA approved a request from Puerto Rico for an emergency fuel waiver. To minimize or prevent disruptions with the supply of diesel fuel for mobile nonroad generators and pumps used for emergency purposes, the EPA waived the diesel requirements through October 15, 2017, allowing the sale, distribution, and use of heating oil and marine fuel designated for use in Emission Control Areas (ECA marine fuel) that exceed the 15 parts per million (ppm) sulfur standard if the fuel meets certain conditions. The waiver includes a warning that the use of diesel fuel exceeding the 15 ppm sulfur standard in any engine equipped with exhaust after treatment emission controls (e.g., diesel particulate filter) may cause serious damage to the engine and its emissions control components. The waiver authority was exercised under the Clean Air Act and was granted by EPA in coordination with DOE. As required by law, EPA and DOE evaluated the situation and determined that granting a short-term waiver was consistent with the public interest. EPA and DOE are continuing to actively monitor the fuel supply situation as a result of Hurricanes Irma and Maria, and will act expeditiously if extreme and unusual supply circumstances exist in other areas. To mitigate any impacts on air quality, the Clean Air Act provides strict criteria for when fuels waivers may be granted, and requires that waivers be limited as much as possible in terms of their geographic scope and duration.
- On 9/23 EPA announced that it will exercise enforcement discretion for mobile power

generators being imported into the United States that will be used as emergency sources of power in Puerto Rico as a result of Hurricane Maria. Under this “no action assurance,” EPA will not pursue enforcement actions for certain violations of the Clean Air Act for mobile power generators being imported for use in Puerto Rico that have not been certified to meet U.S. pollution control standards. EPA’s no action assurance was issued at the request of the Governor of Puerto Rico as preliminary information indicates extreme damage to Puerto Rico’s power grid, including near-total destruction to power transmission. This no action assurance covers mobile power generators that are imported for use in Puerto Rico until January 31, 2018. EPA policy allows the Agency to issue no action assurances in cases where it is necessary to avoid extreme risks to public health and safety and where no other mechanism can adequately address the matter. EPA believes that the exercise of enforcement discretion in these circumstances is in the public interest and will help address the emergency circumstances in Puerto Rico.

- On 9/23 EPA issued an order to the Federal Emergency Management Authority (FEMA) and the Department of Defense (DOD) that provides direction on supplying of clean drinking water in the U.S. Virgin Islands in response to impacts to the island’s drinking water system from Hurricane Maria and Hurricane Irma. The order authorizes FEMA and DOD to install and operate temporary water treatment units that will provide a supply of clean drinking water. U.S. Virgin Islands public water systems are currently not in operational condition. The lack of clean alternative water supplies has created the potential for significant public health impacts. USVI public water systems have been significantly impacted by Hurricanes Maria and Irma and subsequent flooding, including by a loss of electrical power, and are not yet fully able to provide adequately treated water to meet the needs of those affected areas. EPA is monitoring environmental and public health conditions across the U.S. Virgin Islands and Puerto Rico and is working closely with federal, territorial and local officials to ensure impacts from the hurricanes are addressed in order to protect public health. The expiration date of the order is 10/8/17.

## LONG RANGE PLANNING

- **National Disaster Recovery Framework (NDRF) Activities.** Refer to the recovery update in the above Executive Summary.
- **Hurricane Maria.** On 9/27 at 0500 hrs, the center of Tropical Storm Maria was located about 145 miles east of Cape Hatteras, North Carolina. Maria is moving toward the north near 5 mph. A turn toward the north-northeast is expected later today, followed by an acceleration toward the east-northeast on Thursday. On the forecast track, Maria’s center will begin to turn slowly away from the coast of North Carolina later today and tonight. Maximum sustained winds are near 70 mph with higher gusts. Some gradual weakening is forecast during the next couple of days. Tropical-storm-force winds extend outward up to 230 miles from the center.



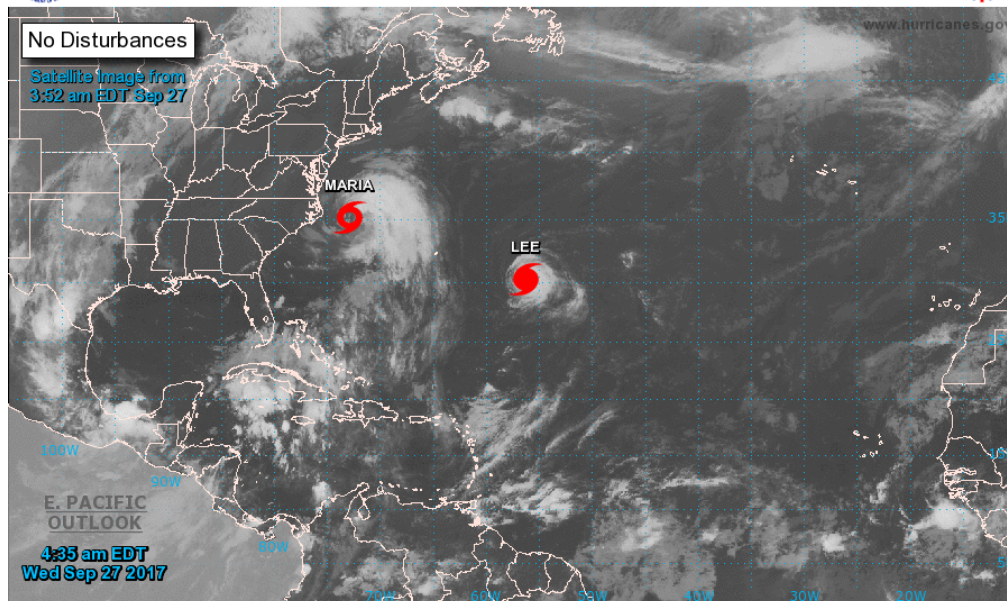
- **Additional Threats to U.S. Caribbean.**
  - No additional threats expected
- **Future Weather Outlook.**





## Two-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida

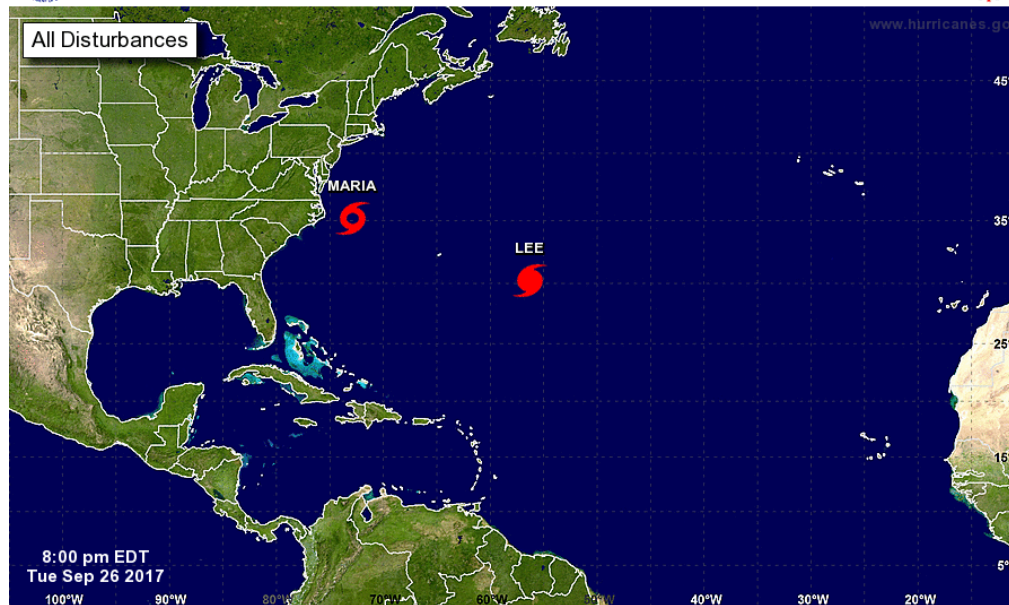


Current Disturbances and Two-Day Cyclone Formation Chance: < 40% 40-60% > 60%  
Tropical or Sub-Tropical Cyclone: Depression Storm Hurricane  
 Post-Tropical Cyclone Remnants



## Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



Current Disturbances and Five-Day Cyclone Formation Chance: < 40% 40-60% > 60%  
Tropical or Sub-Tropical Cyclone: Depression Storm Hurricane  
 Post-Tropical Cyclone Remnants